LUDLUM

# Ludlum 3007

## Portable neutron meter

Ludlum 3007 – portable neutron meter from Ludlum Measurements. Detector: $^{3}$He proportional detector. Measurement range: 0 - 100 mSv/h (0 - 10,000 mrem/hr).



| Detector | Measurement range | Weight as specified |
|---|---|---|
| **$^{3}$He proportional detector** [1] | **0 - 100 mSv/h (0 - 10,000 m rem/hr)** [1] | **.5 kg, with batteries** [1] |

## Specifications

### DETECTOR

| | | |
|---|---|---|
| Detector | $^{3}$He proportional detector | [1] |
| $^{3}$He tube pressure | 2 atm | [1] |
| Internal gamma detector | None | [1] |

### PERFORMANCE

| | | |
|---|---|---|
| Linearity | ±10 % | [1] |

### MEASURING RANGE

| | | |
|---|---|---|
| Measurement range | 0 - 100 mSv/h (0 - 10,000 mrem/hr) | [1] |
| Response time | User-selectable from 1 to 60 seconds, auto SLOW, auto FAST, fixed SLOW (2 2 s), or fixed FAST (4 s) | [1] |
| Neutron sensitivity (bare $^{241}$AmBe) | Typically 10 cpm per µSv/h (100 cpm per mrem/hr) | [1] |

### ELECTRONICS & SIGNAL

| | | |
|---|---|---|
| Detector bias | Adjustable from 300 to 2400 Vdc | [1] |

### POWER & BATTERY

| | | |
|---|---|---|
| Power supply | Four alkaline "AA" batteries | [1] |
| Battery life | Approximately 375 hours | [1] |

### MECHANICAL

| | | |
|---|---|---|
| Dimensions (H × W × L) | 37.1 x 19.5 x 24.4 cm | [1] |
| Weight as specified | 5.5 kg, with batteries | [1] |

### ENVIRONMENT & RATINGS

| | | |
|---|---|---|
| perating temperature | -20 to 50 °C | [1] |

| | | |
|---|---|---|
| Enclosure rating and conditions | IP53 | [1] |

### ORDERING & ACCESSORIES

| | | |
|---|---|---|
| Part number | 48-4294 | [1] |

## Sources

[1] **Model 3007 Series – Neutron Dose Survey Meter With Optional Internal Gamma Detector**
Ludlum Measurements · product-page · Specifications tab, 'Detector'; Specifications tab, 'Measurement Range'; Specifications tab, 'High Voltage' · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-3007-series

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.